

CLAIMS

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1. A fence for use with a woodworking tool such as one of a table saw, band saw, radial arm saw, miter saw, drill press, and router for altering materials, where the woodworking tool includes a working surface on which the materials are altered and the woodworking surface including at least one elongated slot, the fence comprising:

an elongated body having a top end including a top end slot, a front face including at least one front slot, and a back face opposed to the front face and including a back slot;

a planar face integrally extending outward, from approximately the intersection of top end and back face, in an angular manner in relation to the fence body; and

a measurement device seated on the planar face.

2. The fence of claim 1 wherein the front face includes a top front slot and a bottom front slot, and wherein the back face includes back slot and a tapered slot.

3. The fence of claim 2 wherein the top front slot, the bottom front slot, the top end slot and the back slot are T-shaped grooves.

4. The fence of claim 3 wherein each T-shaped grooves includes a first portion adjacent to and open to the respective surface of the top end, front face and back face the groove is cut in, and a second portion that is adjacent to and of a larger cross section than the first portion.

5. The fence of claim 1 wherein the top front slot, the bottom front slot, the top end slot and the back slot are plus-shaped grooves.

6. The fence of claim 5 wherein the plus-shaped grooves include a first portion adjacent to and open to the respective surface of the top end, front face and back face the groove is cut in, a second portion that is adjacent to and of a larger cross section than the first portion, and a third portion adjacent to and of a smaller cross section than the second portion, and wherein the first and second portions define an outer shoulder, and the second and third portions define an inner shoulder in each slot.

7. The fence of claim 6 further comprising an attachment such as one of a clamp, miter gauge, stop, guide, jig, and fixture where the attachment includes a T-fastener comprising a threaded shaft terminating in a head of a diameter larger than the shaft and further including a lock ring threaded on the shaft and of a diameter larger than the shaft whereby rotation of the threaded shaft causes

axial movement of the lock ring on the threaded shaft so as to allow the lock ring to be pulled tightly against an outer shoulder in the plus-shaped groove as the threaded shaft is rotated.

8. The fence of claim 7 further comprising a locking device for securing the fence to the woodworking tool, the locking device including a translating rod with an enlarged head on one end thereof that is insertable through an anchor hole in the locking device, and further including a handle whereby pivotal movement of the handle causes axial motion of the translating rod within the anchor hole such that the enlarged head when positioned within the elongated slots of the working face is moved from a unlocked to a locked position within the elongated slot, and the locking device further including a T-fastener comprising a threaded shaft terminating in a head of a diameter larger than the shaft and further including a lock ring threaded on the shaft and of a diameter larger than the shaft whereby rotation of the threaded shaft causes axial movement of the lock ring on the threaded shaft so as to allow the lock ring to be pulled tightly against an outer shoulder in the plus-shaped groove as the threaded shaft is rotated.

9. The fence of claim 8 wherein the tapered slot has a tapered surface adjacent to and open to the back face that narrows to a well portion that includes a locking tab extending inward into the well.

10. The fence of claim 2 wherein the tapered slot has a tapered surface adjacent to and open to the back face that narrows to a well portion that includes a locking tab extending inward into the well.

11. The fence of claim 10 wherein one of the locking device and the elongated body includes at least one threaded port with a threaded insert therein which may be extended therefrom to forcibly and securably tilt the locking device and elongated body in relation to one another.

12. The fence of claim 10 wherein a hose collar and vacuum hose are attached within the tapered slot.

13. The fence of claim 6 further comprising a stop of an inverted L-shaped design that includes a T-fastener comprising a threaded shaft terminating in a head of a diameter larger than the shaft and further including a lock ring threaded on the shaft and of a diameter larger than the shaft whereby rotation of the threaded shaft causes axial movement of the lock ring on the threaded shaft so as to allow the lock ring to be pulled tightly against an outer shoulder in the plus-shaped groove as the threaded shaft is rotated.

14. A woodworking tool for altering materials, comprising:

a working surface on which materials are altered, the surface including at least one elongated slot;

a fence including a top end and opposed bottom end, and a front face and opposed back face, the fence further including a plurality of attachment receiving grooves therein where at least one groove is in each of the top end, front face and back face, and the fence further including a measurement device extending outward from the top end; and

a locking device attachable to the fence via one of the plurality of attachment receiving grooves and attachable to the working surface via the at least one elongated slot.

15. The woodworking tool of claim 14 wherein the measurement device extends outward approximate the intersection of the top end and back face in an angular manner in relation to the fence.

16. The woodworking tool of claim 14 wherein the plurality of attachment receiving grooves include a plurality of T-shaped grooves.

17. The woodworking tool of claim 16 wherein the T-shaped grooves include a first portion adjacent to and open to the respective surface of the top end, front

face and back face the groove is cut in, and a second portion that is adjacent to and of a larger cross section than the first portion.

18. The woodworking tool of claim 14 wherein the plurality of attachment receiving grooves include a plurality of plus-shaped grooves.

19. The woodworking tool of claim 18 wherein the plus-shaped grooves include a first portion adjacent to and open to the respective surface of the top end, front face and back face the groove is cut in, a second portion that is adjacent to and of a larger cross section than the first portion, and a third portion adjacent to and of a smaller cross section than the second portion, and wherein the first and second portions define an outer shoulder, and the second and third portions define an inner shoulder in each slot.

20. The wood working tool of claim 19 wherein the locking device further comprises a translating rod with an enlarged head on one end thereof that is insertable through an anchor hole in the locking device, and further including a handle whereby pivotal movement of the handle causes axial motion of the translating rod within the anchor hole such that the enlarged head when positioned within the elongated slots of the working face is moved from a unlocked to a locked position within the elongated slot.

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